## Message

From: Labiosa, Rochelle [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP

(FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=DED3654216C9461D95CD5A3CEEC507EF-LABIOSA, ROCHELLE]

**Sent**: 11/9/2016 11:38:02 PM

To: Fullagar, Jill [/o=ExchangeLabs/ou=Exchange Administrative Group

(FYDIBOHF23SPDLT)/cn=Recipients/cn=7ba061353c314b40a14a8be1ee382ae3-Gable, Jill]; Brown, Cheryl A.

[/o=ExchangeLabs/ou=Exchange Administrative Group

(FYDIBOHF23SPDLT)/cn=Recipients/cn=dd6f8a562924439aaf97ca98ddaf1e10-Brown, Cheryl]; Cox, Michael

[/o=ExchangeLabs/ou=Exchange Administrative Group

(FYDIBOHF23SPDLT)/cn=Recipients/cn=cddd6a5bb3c2477183799ef56cdb464f-Cox, Michael]; Cora, Lori

[/o=ExchangeLabs/ou=Exchange Administrative Group

(FYDIBOHF23SPDLT)/cn=Recipients/cn=c8850941bf1540c796559dce75c2f5ee-Cora, Lori]; Cope, Ben

[/o=ExchangeLabs/ou=Exchange Administrative Group

(FYDIBOHF23SPDLT)/cn=Recipients/cn=497efadd936e4d378225116b8f50fd3f-Cope, Ben]

Subject: RE: mtg with HQ next week

Just to clarify- the below figure I think is in the Dan briefing already, but now we have additional data that we could include from more recent years (ie Francis Chan's data) if needed

Rochelle Labiosa, Ph.D.
Office of Water and Watersheds
US EPA, Region 10
1200 Sixth Avenue, Suite 900, MC: OWW-191
Seattle, WA 98101-3140

Ph: 206.553.1172 Fax: (206) 553-0165

From: Labiosa, Rochelle

Sent: Wednesday, November 09, 2016 3:17 PM

To: Fullagar, Jill <Fullagar.Jill@epa.gov>; Brown, Cheryl A. <Brown.Cheryl@epa.gov>; Cox, Michael

<Cox.Michael@epa.gov>; Cora, Lori <Cora.Lori@epa.gov>; Cope, Ben <Cope.Ben@epa.gov>

Subject: RE: mtg with HQ next week

Sounds great-maybe two addition	nal things to include: 1) lifecycle info/motility/residence	time for pteropods Deliberative Process / Ex. 5
	Deliberative Process / Ex. 5	2) additional
marine chemistry in state waters	Deliberative Process / B	Ēx. 5



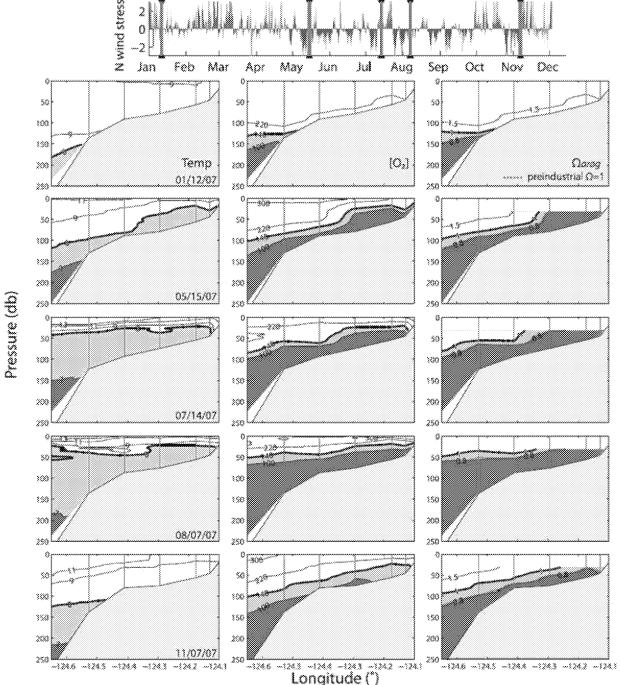


Figure 2. (bottom) Selected sections of T (°C, left),  $[O_2]$  ( $\mu$ mol/kg, center), and  $\Omega'_{\mu\nu\alpha g}$  (right), for January to November 2007.  $\Omega'_{\mu\nu\alpha g}$  was calculated from T and  $O_2$  data (averaged in 1 db bins) using the regression model described by equation (3). Also shown is an estimated preindustrial  $\Omega'_{\mu\nu\alpha g}=1$  line. Locations of profiles indicated by vertical lines. Note that  $\Omega'_{\mu\nu\alpha g}$  are only shown for depths greater than 30 m (see text for explanation). Propagated uncertainty in  $\Omega'_{\mu\nu\alpha g}$ , based on uncertainties of T and  $O_2$  data (0.003°C and 0.45  $\mu$ mol/kg, respectively) is 0.002. (top) Northward wind stress (dynes cm<sup>-2</sup>) from NDBC buoy 46050 (see Figure 1 for location), with upwelling-favorable winds (southward winds, negative wind stress) denoted in blue and downwelling-favorable winds (northward winds, positive wind stress) denoted in red. Dates of sections are designated by grey bars.

Rochelle Labiosa, Ph.D.
Office of Water and Watersheds

US EPA, Region 10 1200 Sixth Avenue, Suite 900, MC: OWW-191

Seattle, WA 98101-3140

Ph: 206.553.1172 Fax: (206) 553-0165

From: Fullagar, Jill

Sent: Wednesday, November 09, 2016 2:15 PM

To: Brown, Cheryl A. <a href="mailto:Srown.Cheryl@epa.gov">"Srown.Cheryl@epa.gov">"Cox, Michael@epa.gov">"Cox, Mic

Cope, Ben < Cope.Ben@epa.gov>; Labiosa, Rochelle < labiosa.rochelle@epa.gov>

Subject: mtg with HQ next week

Hi all,

As I think you all know, we got an NOI regarding action on the OR list as a whole. We will be trying to get out for public comment by Dec 18.

Deliberative Process / Ex. 5

## **Deliberative Process / Ex. 5**

- -a revised version of the last briefing paper we used with Dan, updating the info about the data points; I can do this tomorrow
- -Cheryl's assessment of the NOAA data. Cheryl—is it ok to send the one we used with NOAA? I'll explain to them that the errors you pointed out were confirmed.
- -Cheryl's slides of her graphs. Cheryl—should I send just the ones you sent today, or also the ones that were in the presentation the other day? Do today's update those, or is there distinct info in both?
- -I'll send some of the slides from our presentation to Grace and Brian that detail the difficulties and precedent setting ramifications of our decision.

Is there anything else you can think of that they should have? Thanks.

jill

Jill Fullagar, Impaired Waters Coordinator Watershed Unit, Office of Water and Watersheds US EPA, Region 10 1200 Sixth Avenue, Suite 900 (OWW-192) Seattle, WA 98101-3140 (206) 553-2582, (206) 553-1280 (fax) fullagar.jill@epa.gov